THE MAGAZINE FOR ELECTRONIC MUSICIANS

$1.75

SPECTRUM

synths by Fasor

THE FUTURE IS ANALOG

FASOR INTRODUCES A NEW GENERATION OF SYNTHESIS.
POWERFUL. VERSATILE.
100% ANALOG.

INNOVATION
Advanced synthesis architecture for limitless sound design.

PERFORMANCE
Designed for today's player. Built for tomorrow.

EXPLORE
From deep bass to cosmic textures. SPECTRUM does it all.

EXCLUSIVE

Introducing 1st
Edition of FASOR synths

FASOR NOVACART MK-LUX1

PURE CONTROL. ZERO SCREENS.

THREE OSCILLATORS. PURE CONTROL. ZERO SCREENS.

The FASOR NovaCart MK-LUX1 is a performance-focused, hardware-driven synthesizer built for the musician who wants immediate control and maximum expression.

With three USB-loadable oscillators, full manual modulation, and a powerful multi-effect section, the MK-LUX1 puts complete sonic power at your fingertips. No menus. No screens. Just you and your music.

USB SOUND POWER
LOAD SOUNDS.
CREATE.
PERFORM.
NO LIMITS.

- **3 OSCILLATORS:** Load pre-programmed sounds via USB or sculpt from scratch with dedicated controls (10 faders, 6 buttons, 1 knob per oscillator).
- **MULTI-FX ENGINE:** Delay, Chorus, and Spin (Leslie/Tremolo) with stereo/mono modes, dual-channel routing, and detailed parameter shaping.
- **PATCH OUTPUT:** Built-in micro-printer with Print/Snap/Mode buttons to physically store patch settings.
- **LIVE CONTROLS:** Hold, Panic, 8-bit, and 64-bit for fast, expressive performance shifts.
- Includes pitch and mod wheels.

MK-LUX1 IS CRAFTED FOR PROFESSIONAL PRODUCERS AND LIVE MUSICIANS WHO DEMAND DIRECT INTERACTION, VINTAGE SPIRIT, AND MODERN FLEXIBILITY.

CIRCLE 27 ON READER SERVICE CARD

ADS-100

Pages 6-9

FASOR

NOVACART
THE NEW STANDARD OF CONTROL

ANALOG SOUL. DIGITAL POWER.

THREE OSCILLATORS. ENDLESS POSSIBILITIES.

The Fasor NovaCart redefines modern synthesis by merging analog-inspired control with digital versatility through a **unique cartridge system.** Load sounds, shape them, and perform—all without a screen in sight.

CARTRIDGE POWER

Each oscillator loads up to 8 waveforms via USB. Instant recall. Total freedom.

- 3 Independent Oscillators
- 8 Pre-Programmed Waveforms Each
- Deep Synthesis: 12 Long-Throw Faders
- Triple-Split Display
- Dual FX Engines: Delay & Chorus
- Per-Oscillator Routing & Outputs
- MIDI & CV Ready
- Mod Wheels, Pitch Bend, & Octave Control

DEEP SYNTHESIS CONTROL

12 long-throw faders per oscillator give you hands-on control of every parameter that matters.

DUAL EFFECTS ENGINES

Delay and Chorus with multiple modes, stereo/mono routing, and 4 dedicated parameter faders for precision shaping.

TOTAL FLEXIBILITY

Individual outputs for each oscillator, stereo/mono outs for each effect, and auxiliary outs for any setup.

BUILT TO PERFORM

Brushed metal chassis. Wooden side panels. Backlit buttons. This is a machine made for the stage and the studio.

MAKE EVERY SOUND YOURS. The NovaCart combines the tactile power of vintage hardware with the flexibility of modern design. No menus. No distractions. Just hands, ears, and imagination.

$1595.00 SUGGESTED RETAIL

FASOR AMS-K37

ADVANCED ANALOG PERFORMANCE SYNTHESIZER

PURE ANALOG. TOTAL CONTROL.

TOTAL SYNTHESIS. INSTANT RECALL.

The FASOR AMS-K37 combines classic analog synthesis with modern performance control. Two VCOs, state-variable filter, dual envelopes, LFO, and modulation routing — all at your command. Plus, the exclusive Quick Memory Module system lets you store and swap entire synth programs in seconds.

POWERFUL FEATURES

- 2 VCOs with PWM, Sync, and Detune
- State-Variable Filter with Drive & Keyboard Tracking
- Dual ADSR Envelopes (Filter & Amp)
- Multi-Mode LFO: Triangle, Square, S&H
- Noise Generator & External Audio Input
- Modulation Destination & Amount Controls
- Glide, Master Tune, and Output Volume
- Quick Memory Module Storage System

QUICK MEMORY MODULE SYSTEM

Each removable memory module stores one complete synthesizer program. Build your own library of sounds and take it anywhere.

- Instant program load
- Save current patch with one button
- Exchange sounds in seconds
- Perfect for stage and studio

FRONT PANEL HIGHLIGHTS

MIXER
Balance OSC 1, OSC 2, Noise, and External Input.

FILTER
Resonant 24dB / 12dB with Envelope Amount and Keyboard Tracking.

LFO
Triangle, Square, and Sample & Hold waveforms with Rate, Delay & Amount.

PERFORMANCE
Mod Wheel and Pitch Wheel for real-time control.

PRESETS
Hold, Preset, Save, and Shift for quick programming.

DESTINATION
Route modulation to Filter, PWM, Pitch, or LFO.

BUILT FOR MUSICIANS.

Whether on stage or in the studio, the AMS-K37 delivers expressive sound and immediate control where you need it most.

ANALOG. EXPRESSIVE. RELIABLE.

The AMS-K37 is designed for players who demand hands-on synthesis with no digital menus or hidden parameters.

Just powerful analog sound, total control, and the freedom to create.

$1295.00
SUGGESTED RETAIL

Quick Memory Modules Sold Separately

FASOR AMS-K37. ANALOG FREEDOM.

FASOR NOVACART

HYBRID POWER. TOTAL CONTROL.

ANALOG SOUL. DIGITAL FREEDOM.

THREE OSCILLATORS. LIMITLESS POSSIBILITIES.

The FASOR NovaCart is a hybrid analog-digital synthesizer inspired by the legendary CS-70M, built for musicians who demand depth, flexibility, and hands-on control.

POWERFUL FEATURES

- **3 ANALOG OSCILLATORS (VCO I, II, III)** with wave morphing, noise, PWM, and fine tune.
- **VCF** with 7 faders + 4 routing buttons (LP, HP, BP, Notch, Comb, Formant).
- **VCA & VCF ENVELOPES** with 4 mini-faders each and 3-button destination selectors.
- **2 LFOs** with waveform sliders, rate, depth, and 6 destination buttons.
- **GLISSANDO / PORTAMENTO, MOD WHEEL** (3 modes) and **PITCH WHEEL** (3 modes).
- **USB CARTRIDGES** with 16 presets each, Independent & Dual selection modes.
- **3-POSITION OUTPUT** (Off / Mono / Stereo), Stereo Balance, Phones & Master Volume.
- **MIDI IN** for control and integration.

BUTTON FUNCTION OVERVIEW

TOGGLE BUTTONS

Press to activate (sinks), press again to deactivate. In groups, selecting a new button turns off the previous one.

PRESET BUTTONS

In Independent Mode, select up to 2 presets. In Dual Mode, enables custom mode by default. Custom button is a standard toggle.

MOD WHEEL BUTTON

Momentary. Each press cycles through:
I → I+II → II

PITCH WHEEL BUTTON

Momentary. Each press cycles through:
Octave → Fifth → Third

ALL BUTTONS ARE DESIGNED TO BE INTUITIVE, FAST, AND CONFLICT-FREE.

DIGITAL FLEXIBILITY

Load sounds, layer presets, create your own — all from USB cartridges.

16 presets per cartridge.

Fast. Reliable. Inspiring.

ANALOG HEART. DIGITAL MIND.

From thick analog leads to evolving experimental textures, the NovaCart delivers the best of both worlds in one powerful instrument.

Classic sound. Modern workflow. Unlimited expression.

RETRO SPIRIT. MODERN PERFORMANCE.

Whether on stage or in the studio, the FASOR NovaCart puts total control in your hands.

$1795.00
SUGGESTED RETAIL

VCO 1
VCO 2
VCO 3
VCO 1
VCO 2
VCO 3
VCO 1
VCO 2
VCO 3
VCO II

INSIDE THE SYNTHESIZER

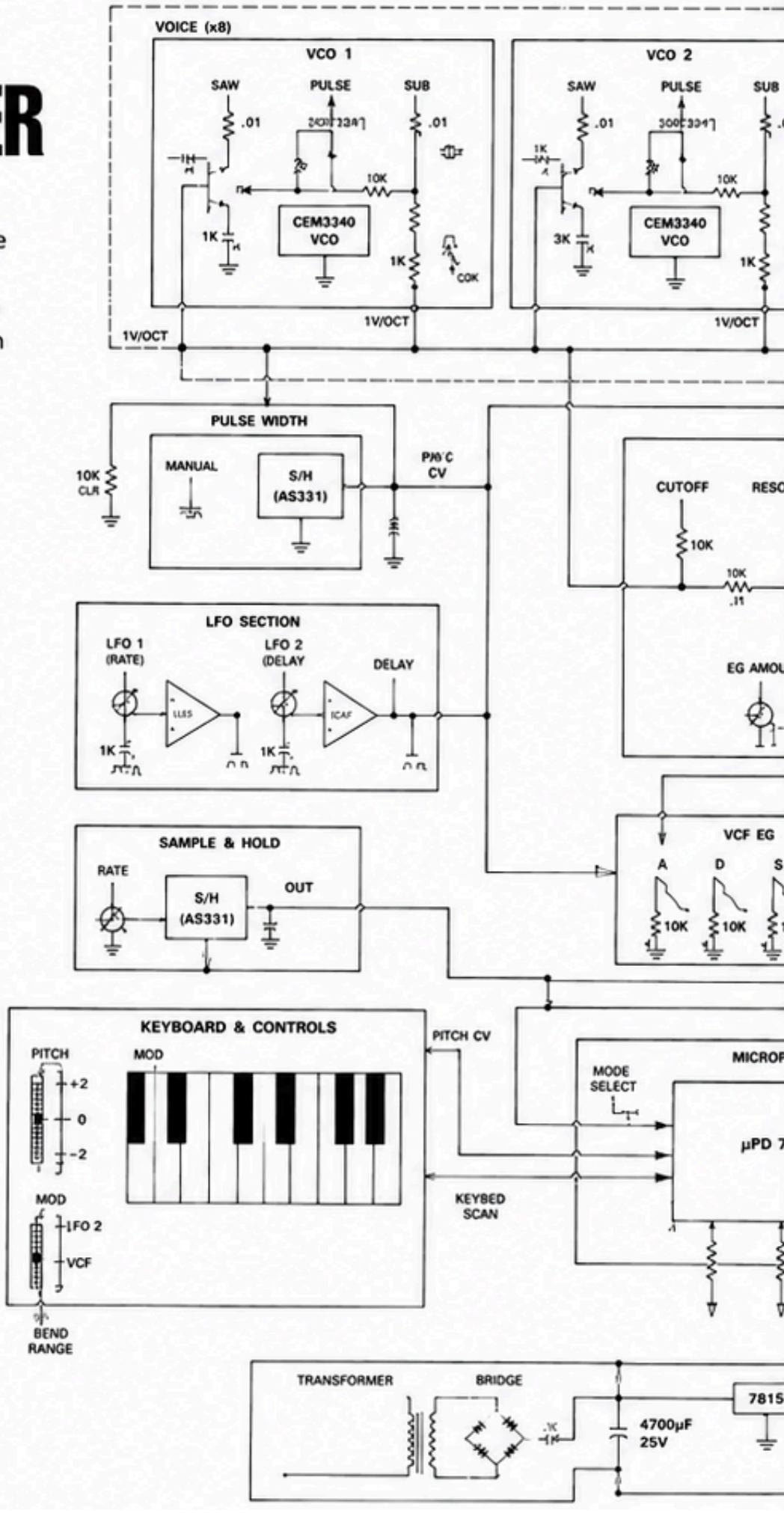
The new polyphonic synthesizer features an advanced all-analogue signal path controlled by a microprocessor-based modulation and memory system. The diagram at right shows the complete electrical architecture.

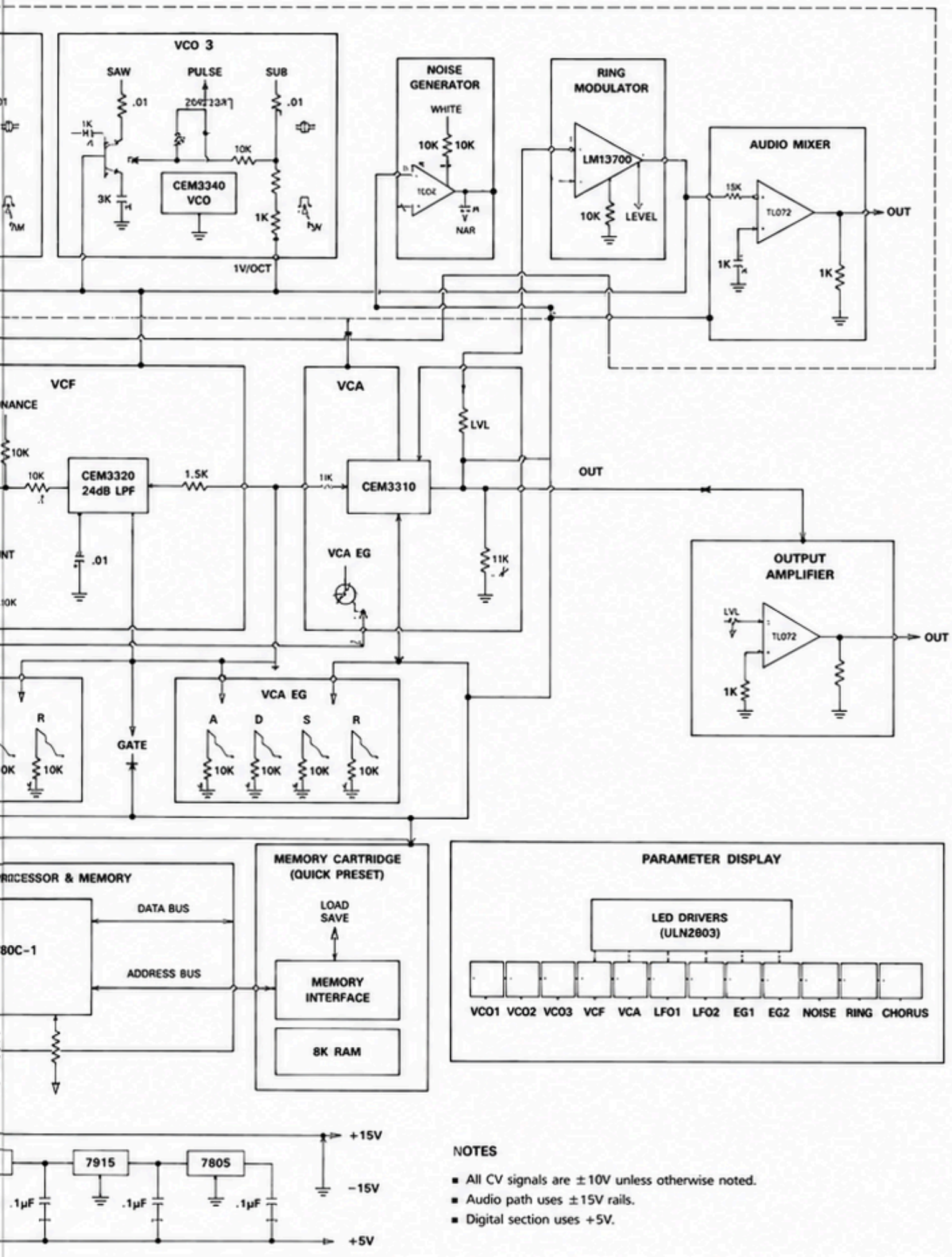
FEATURES

- 3 VCOs per voice (saw, pulse, sub-octave)
- 1 VCF (24dB/oct low-pass)
- 1 VCA
- 2 EGs (VCF & VCA)
- 2 LFOs
- Noise Generator
- Ring Modulator
- Sample & Hold
- Microprocessor with quick preset memory (cartridges)
- 37-note keyboard with pitch and modulation controls
- LED parameter display

BLOCK DIAGRAM OVERVIEW

The instrument is organised around 8 independently controlled voices. Each voice contains 3 VCOs, a VCF, a VCA and 2 EGs. Modulation sources (LFOs, Noise, Ring Mod, S&H) are available to all voices through a modulation bus.
A microprocessor handles keyboard scanning, voice allocation, parameter storage and panel display.





NOTES

- All CV signals are ±10V unless otherwise noted.
- Audio path uses ±15V rails.
- Digital section uses +5V.

FASOR AP-04

CLASSIC ENSEMBLE SOUNDS. INSTANT INSPIRATION.

WARM. EXPRESSIVE. TOTAL CONTROL.

ORGAN, CHOIR, STRINGS. ONE TOUCH PERFECTION.

The FASOR AP-04 delivers the rich, layered ensemble sounds of classic instruments in a compact, performance-ready keyboard. From lush strings and warm choirs to powerful organs and punchy percussion, the AP-04 puts instant inspiration at your fingertips.

Designed for players who demand expression and reliability, the AP-04 combines intuitive controls with advanced analog synthesis for sound that moves you.

SOUND GENERATION

- Six independent level sliders Strings 8', Strings 4', Choir, Organ 16', Organ 8', Organ 4' for layered ensembles.
- Resonant voltage-controlled filter with Cutoff, Resonance, Keyboard Tracking, and Filter Modulation Amount.
- LFO with Rate, Delay, Vibrato Depth, Filter Mod Depth, and waveform selection for expressive modulation.
- Organ Percussion and Key Click controls add realism and punch.
- Built-in Chorus for added depth and ensemble.

QUICK MEMORY MODULE SYSTEM

Store your complete instrument setups on rear-panel memory modules. Insert, load, and play — it's that simple.

- Save and recall complete programs in seconds
- Blank modules can be programmed using front-panel STORE and LOAD
- Perfect for stage and studio

SPECIFICATIONS

- 49-note (4-octave) fully polyphonic keyboard
- Six voice level sliders:
  - Strings 8'
  - Strings 4'
  - Choir
  - Organ 16'
  - Organ 8'
  - Organ 4'
- Voltage-Controlled Filter with Cutoff, Resonance, Keyboard Tracking, and Modulation Amount
- Full ADSR envelope generator
- LFO with Rate, Delay, Vibrato Depth, Filter Mod Depth, and waveform selection
- Organ Percussion and Key Click controls
- Built-in Chorus effect
- Master Volume, Brilliance, and Master Tune
- Rear-panel Quick Memory Module system with STORE/LOAD functions
- Stereo and mono audio outputs

FRONT PANEL CONTROL OVERVIEW

ENVELOPE
Attack, Decay, Sustain, Release shape the dynamic response.

FILTER
Cutoff and Resonance sculpt the tone. Keyboard Tracking and Mod Depth add expression.

VOICES
Six level sliders let you blend Strings, Choir, and Organ voices.

LFO
Rate, Delay, and Vibrato Depth create movement and depth.

EFFECTS
Chorus adds rich ensemble dimension.

MEMORY
Load, Save, and Delete your favorite programs instantly.

PERFORMANCE READY

Responsive keyboard.
Smooth sliders.
Instant control.
Built for the stage.
Made for musicians.

TIMELESS SOUND. MODERN RELIABILITY.

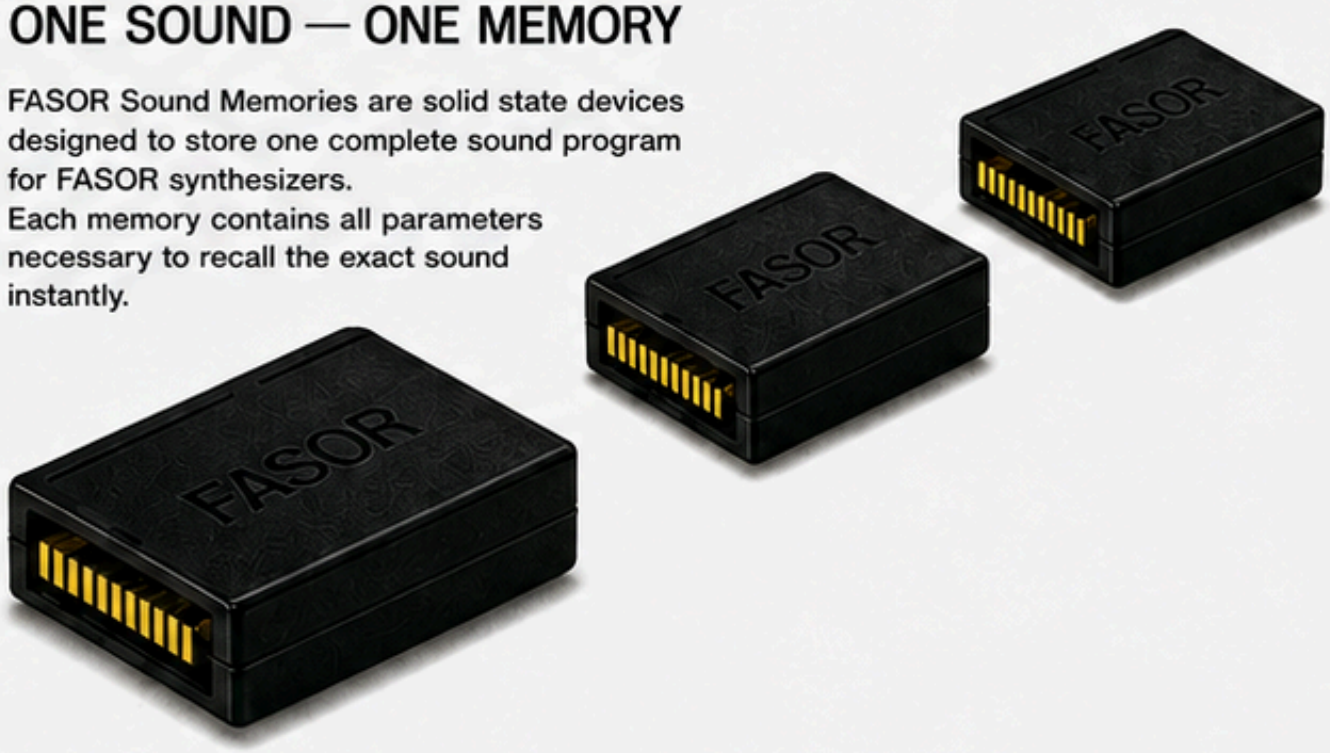
The AP-04 brings the warmth of classic ensemble instruments into a powerful, easy-to-use synthesizer. Whether in the studio or on stage, the sound is always there when you need it.

$995.00
SUGGESTED RETAIL
Quick Memory Modules Sold Separately

THE FASOR MEMORY

ONE SOUND — ONE MEMORY

FASOR Sound Memories are solid state devices designed to store one complete sound program for FASOR synthesizers.
Each memory contains all parameters necessary to recall the exact sound instantly.



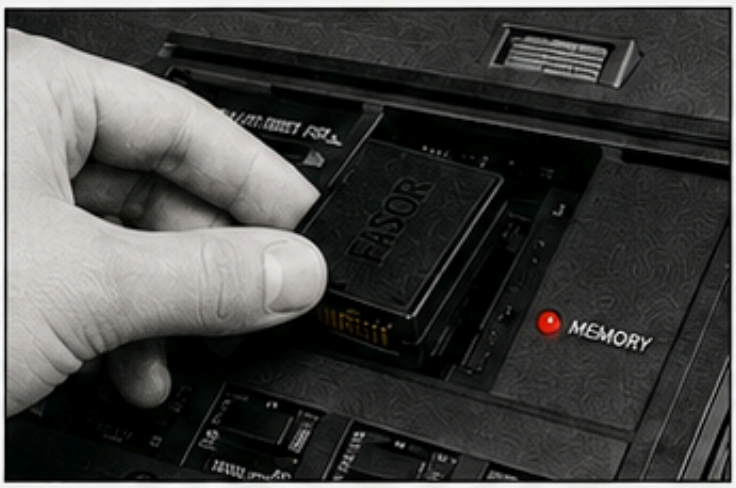
HOW TO USE

1. Turn the synthesizer power OFF.
2. Insert the FASOR Memory into the memory slot until it is completely seated.
3. Turn the synthesizer power ON.
4. The red MEMORY indicator will light. The sound stored in the memory is now active.
5. To load a different sound, power OFF and insert another memory.

NOTE:
Never insert or remove a memory while the power is ON.
This may damage the memory and the synthesizer.

MEMORY FEATURES

- Stores one complete sound (all parameters)
- Non-volatile memory
- Instant recall
- No battery required
- Rugged, compact, reliable
- Gold plated contacts
- Shock resistant construction
- Designed exclusively for FASOR synthesizers



Insert memory with power OFF.

SOUND SERIES

FASOR offers a wide range of professionally programmed sounds.
Each series is identified by a three letter code.

STR	STRINGS	STR-01 ~ STR-24
BRS	BRASS	BRS-01 ~ BRS-24
PAD	PADS	PAD-01 ~ PAD-24
BAS	BASS	BAS-01 ~ BAS-24
LED	LEADS	LED-01 ~ LED-24
PNO	PIANOS	PNO-01 ~ PNO-24
ORG	ORGANS	ORG-01 ~ ORG-24
FX	EFFECTS	FX-01 ~ FX-24

Each memory contains one sound.

Example: STR-01 Warm Strings
BRS-05 Synth Brass 2
PAD-12 Fantasy Pad
LED-03 Sync Lead
BAS-07 Electric Bass 1
. etc.

MEMORY SPECIFICATIONS

Memory capacity:
One complete sound
(all parameters)

Memory type:
Read only
(non-volatile)

Connector:
24 pin edge connector

Contact material:
Gold plated

Operating temperature:
0°C ~ +60°C

Storage temperature:
−20°C ~ +70°C

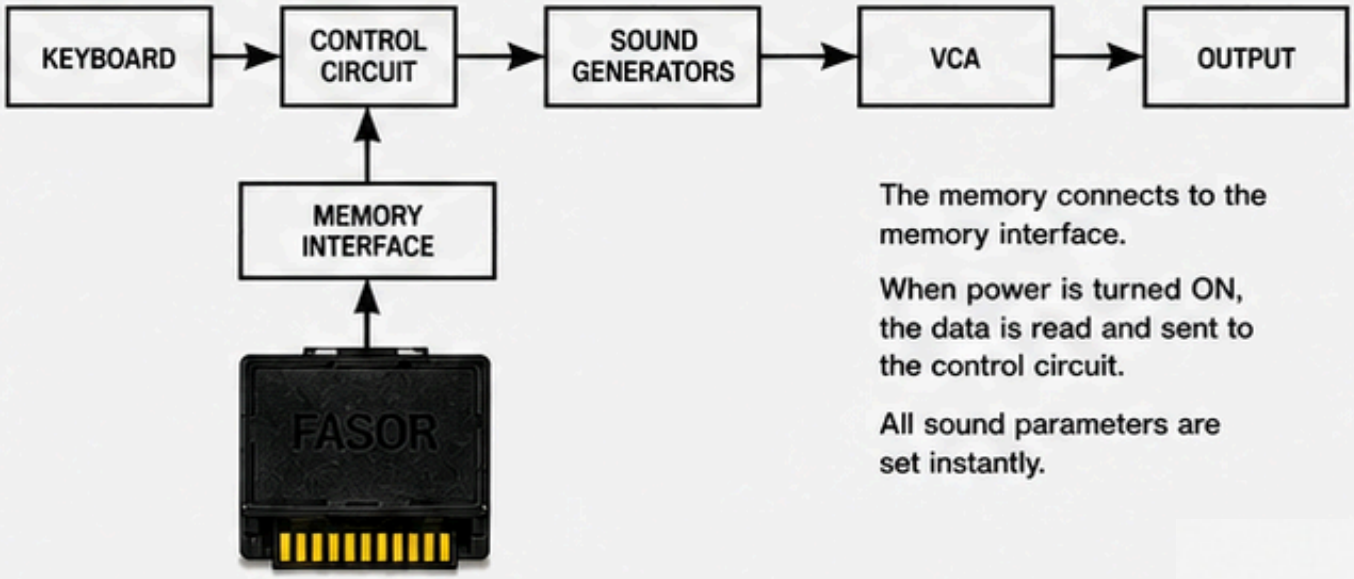
Dimensions:
42(W) x 28(D) x 12(H) mm
(1.65" x 1.10" x 0.47")

Weight:
18 g (0.63 oz)

COMPATIBLE MODELS

- ☐ FASOR PS-8
- ☐ FASOR PS-16
- ☐ FASOR FM-2
- ☐ FASOR POLY-800
- ☐ FASOR CS-80
- ☐ FASOR DS-1

SYSTEM DIAGRAM



The memory connects to the memory interface.

When power is turned ON, the data is read and sent to the control circuit.

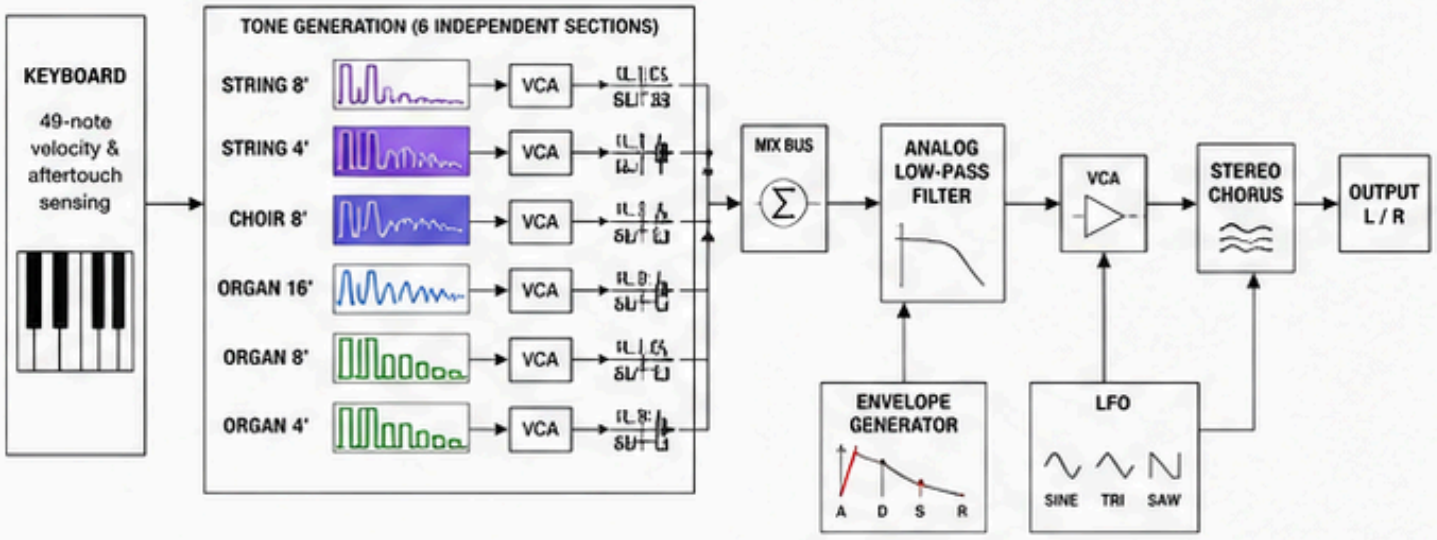
All sound parameters are set instantly.

FASOR AP-04

CLASSIC ENSEMBLE SOUNDS. INSTANT INSPIRATION.

WARM. EXPRESSIVE. TOTAL CONTROL.

SOUND GENERATION & SIGNAL FLOW



Each tone section has its own digital tone generator and level control. All six are mixed and shaped by the analog filter, envelope, and chorus to create a warm, unified ensemble sound.

TONE SECTIONS

STRINGS 8'

Lush string ensemble with rich harmonics and wide stereo image.

- Digital waveform (multi-sample)
- Slow attack, rich sustain
- Ideal for pads and layered parts

STRINGS 4'

Brighter string ensemble with more presence and definition.

- Digital waveform (multi-sample)
- Faster attack, clear sustain
- Perfect for leads and rhythms

CHOIR 8'

Classic analog-style choir/vocoder tone with warm character.

- Formant-based synthesis
- Blend of male/female voices
- Ideal for vintage ensemble textures

ORGAN 16'

Deep, rich organ bass with powerful low end.

- Digital tonewheel emulation
- Long sustain
- Foundation for organ sounds

ORGAN 8'

Full organ tone with balanced body and warmth.

- Digital tonewheel emulation
- Classic organ character
- Versatile and expressive

ORGAN 4'

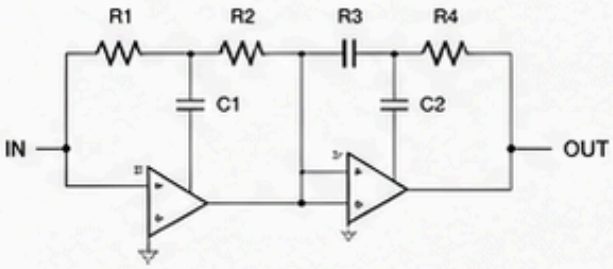
Bright organ tone with bite and clarity.

- Digital tonewheel emulation
- Adds brightness and attack
- Perfect for cut through in the mix

ANALOG FILTER SECTION

The AP-04 features a warm, resonant 24dB/octave low-pass filter derived from classic analog designs.

FILTER DIAGRAM



FILTER CONTROLS

CUTOFF
Sets the cutoff frequency. Lower values produce a softer, darker tone.

RESONANCE
Emphasizes the frequencies around the cutoff point for more character.

KEY TRACK
Adjusts the amount of keyboard tracking applied to the cutoff frequency.

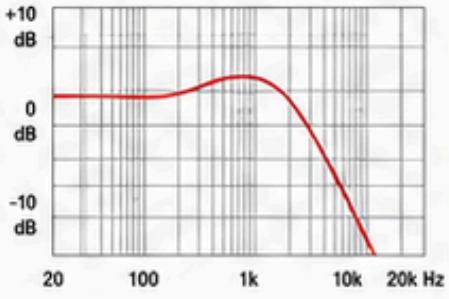
THE SOUND OF THE AP-04

The FASOR AP-04 is designed to deliver the rich, layered ensemble sounds that defined a generation. Six independent tone sections—three Organ, one Choir, and two Strings—come together through a warm analog filter, dynamic envelope, and lush stereo chorus to create everything from intimate pads to powerful organ leads. The result is a sound that is both classic and timeless.

WARM & EXPRESSIVE

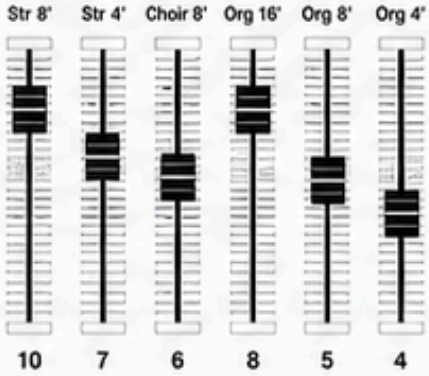
The AP-04's combination of digital tone generators and analog filtering creates a smooth, warm character with plenty of movement and depth.

FREQUENCY RESPONSE (TYPICAL)



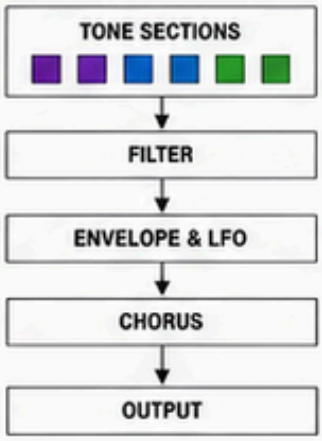
RICH ENSEMBLE CHARACTER

Six independent tone sections allow for natural blending of organ, choir, and strings—perfect for layered performances.



TOTAL CONTROL

From fundamental shaping to final polish, every stage of the sound can be adjusted to your taste.



ELECTRONIC DESIGN

The AP-04 uses a hybrid design, combining digital tone generation for stability and versatility with analog circuitry for warmth and musicality where it matters most.

SECTION	TECHNOLOGY	DETAILS
Tone Generation	Digital	Custom 12-bit DAC, multi-sample ROM for Strings and Choir, Digital Tonewheel emulation for Organ.
Mixing	Analog	Low-noise summing amplifier for all six sections.
Filter	Analog	24dB/octave low-pass filter with resonance and keyboard tracking.
VCA	Analog	High-quality voltage controlled amplifier for dynamic response.
Chorus	Analog (BBD)	Bucket Brigade Device chorus for lush stereo width.
LFO	Analog	Triangle, Sine, Saw waveforms with variable rate.
Envelope	Analog	ADSR envelope with velocity sensitivity.
Memory System	Digital	CMOS memory with battery backup, cartridge module support.

MODULATION SYSTEM

LFO

Provides cyclical modulation to the filter cutoff, pitch (via vibrato), or amplitude.

ENVELOPE (ADSR)

Shapes the amplitude and filter over time for natural, expressive dynamics.

MODULATION ASSIGNMENT

LFO and Envelope can be assigned to multiple destinations.

- Filter Cutoff
- Pitch (Vibrato)
- Amplitude

DESTINATION SELECT

DESIGNED FOR PLAYERS

Every aspect of the AP-04 is built for intuitive control and immediate inspiration. Whether on stage, in the studio, or at home, the AP-04 puts the power of classic ensemble sounds at your fingertips.

INSTANT SOUNDS. ENDLESS POSSIBILITIES.

FASOR ELECTRONICS LTD.

TOKYO • LOS ANGELES • LONDON

HEAR TOMORROW. TODAY.

THE NEW GENERATION OF ELECTRONIC MUSIC

From warm, expressive ensemble sounds to powerful electronic organs, FASOR instruments deliver classic character with modern control. Designed for creators. Built for the future.

- RICH. AUTHENTIC. TIMELESS.
- INSTANT INSPIRATION.
- TOTAL CONTROL.
- MADE FOR MUSICIANS.

AP SERIES *CHOOSE YOUR SOUND.*

AP-02
49-KEY ENSEMBLE KEYBOARD

Essential sounds.
Immediate expression.

6 TONE SECTIONS

AP-04
49-KEY ENSEMBLE SYNTHESIZER

The perfect balance of warmth, versatility, and control.

6 TONE SECTIONS

AP-06
61-KEY PROFESSIONAL SYNTHESIZER

Expanded performance.
Advanced possibilities.

6 TONE SECTIONS

FASOR
ELECTRONIC INSTRUMENTS

Since 1980, FASOR has been dedicated to creating electronic musical instruments that inspire. Combining classic sound generation with modern innovation, we build instruments that last—and sounds that move.

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JAPAN ¥980

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